

Claims

1. A drive train for a header of a harvesting machine, the harvesting machine having a main frame on which a feeder house is mounted, the harvesting machine also having a direction of travel, the feeder house having a front face with a mounting device, the mounting device is movable with respect to the main frame, the header being releasably mounted to the mounting device, wherein the drive train comprises a header drive shaft that is driven by the harvesting machine, the header drive shaft drives a secondary drive shaft for supplying power to the header, the secondary drive shaft is mounted on the header, the header drive shaft is mounted on the mounting device.

2. The drive train as defined by claim 1 wherein the header drive shaft extends horizontal and perpendicular to the direction of travel.

3. The drive train as defined by claim 2 wherein the header drive shaft is connected to a harvesting machine drive shaft that drives the header drive shaft by a connection shaft extending in the direction of travel.

4. The drive train as defined by claim 3 wherein the mounting device is hinged on the feeder house so that it can pivot about a pendulum axis extending at least approximately in the direction of travel of the harvesting machine.

5. The drive train as defined by claim 4 wherein the connection shaft extends coaxially to the pendulum axis.

6. The drive train as defined by claim 4 wherein the connection shaft is a drive shaft of variable length.

7. The drive train as defined by claim 4 wherein the connection shaft is connected to the header drive shaft by an angular gear.

8. A harvesting machine having a direction of travel comprising:

a main frame;

a feeder house being mounted to the main frame, the feeder house having a front face with a mounting device, the mounting device is movable with respect to the main frame;

a header being releasably mounted to the mounting device;

a drive train comprising a header drive shaft being driven by the harvesting machine, the header drive shaft drives a secondary drive shaft for supplying power to the header, the secondary drive shaft being mounted on the header and the header drive shaft being mounted on the mounting device.

9. The harvesting machine as defined by claim 8 wherein the header includes a center part being mounted on the mounting device and at least one side part being attached to the center part, the at least one side part having a transport position and a work position relative to the center part, and the secondary drive shaft on the center part being connected to the header drive shaft, so that the side part can be brought into the transport position without separating the drive connection between the secondary drive shaft of the center part and the header drive shaft.

10. The harvesting machine as defined by claim 8 wherein the harvesting machine is provided with a slope equipment that keeps the main frame oriented horizontally when traveling over a slope.

11. The harvesting machine as defined by claim 8 wherein the header drive shaft extends horizontal and perpendicular to the direction of travel.

12. The harvesting machine as defined by claim 11 wherein the header drive shaft is connected to a harvesting machine drive shaft that drives the header drive shaft by a connection shaft extending in the direction of travel.

13. The harvesting machine as defined by claim 12 wherein the mounting device is hinged on the feeder house so that it can pivot about a pendulum axis extending at least approximately in the direction of travel of the harvesting machine.

14. The harvesting machine as defined by claim 13 wherein the connection shaft extends coaxially to the pendulum axis.

15. The harvesting machine as defined by claim 13 wherein the connection shaft is a drive shaft of variable length.